

راهجلل يئانثلا لماعلا ئقاداصم نيوكت بلطتملا ىلإ لوصولل

تاي وتحمل

[ةمدقملا](#)

[قيس اس آلا تابلطتملا](#)

[تابلطتملا](#)

[ةمدختسملا تابنكملل](#)

[ةكبشلل يطي طختلا مسربلا](#)

[قيس اس آتمامولعم](#)

[تابنيوكتللا](#)

[يف نيوكتللا C1000](#)

[رتاوي بمك يف نيوكتللا Windows](#)

[لاجم دلارتوبي بمك ئفاضا 1. قوطخلل AD](#)

[مدختسملا ئقاداصم نيوكت 2. قوطخلل](#)

[مداخيف نيوكتللا Windows](#)

[لاجم دلارتوبي بمك قزهجا ديكأت 1. قوطخلل](#)

[لاجم مدختسم ئفاضا 2. قوطخلل](#)

[يف نيوكتللا ISE](#)

[زاهج ئفاضا 1. قوطخلل](#)

[ئفاضا 2. قوطخلل Active Directory](#)

[زاهجلل ئقاداصم دادع ديكأت 3. قوطخلل](#)

[قيووللاردىصىم تالسىرس ئفاضا 4. قوطخلل](#)

[لىيوقتلا فيرعت فلمو DACL ئفاضا 5. قوطخلل](#)

[جهن قفعومجم ئفاضا 6. قوطخلل](#)

[ئقاداصملالاجهن ئفاضا 7. قوطخلل](#)

[لىيوقتلا جهن ئفاضا 8. قوطخلل](#)

[قحصلانم ققحتللا](#)

[مدختسملا ئقاداصمو زاهجلل ئقاداصم 1. ئطمنللا](#)

[نم جورخلل لىيج سىت 1. قوطخلل Windows PC](#)

[ئقاداصملالىمع ئسلىج ديكأت 2. قوطخلل](#)

[لوجد لىيج سىت 3. قوطخلل Windows PC](#)

[ئقاداصملالىمع ئسلىج ديكأت 4. قوطخلل](#)

[لىجس ديكأت 5. قوطخلل Radius Live](#)

[طقف مدختسملا ئقاداصم 2. ئطمنللا](#)

[نم NIC نىكمت ولرى طىاعت 1. قوطخلل Windows PC](#)

[ئقاداصملالىمع ئسلىج ديكأت 2. قوطخلل](#)

[لىجس ديكأت 3. قوطخلل Radius Live](#)

[اهحالص او عاطخلل فاشكتسى](#)

[قلص تاذ ئاما مولعم](#)

[ةمدقملا](#)

مادختساب لم الواقع ئيئان ث قصاصم نيكوتل ئبولطملا تاوطلخلا دنتسملاءه فصي و زاهجلا ئقصاصم dot1x.

ئيساساً ئابلتتملا

تابلطتملا

ئيلاتلا عيضاوملا ئفرعم كيدل نوكت نأب Cisco يصوت:

- ن م ئي وهلا تامدخ كرحم نيكوت Cisco
- Cisco Catalyst نيكوت
- IEEE802.1x رايعلملا

ئمدختسملاءه تانوكملا

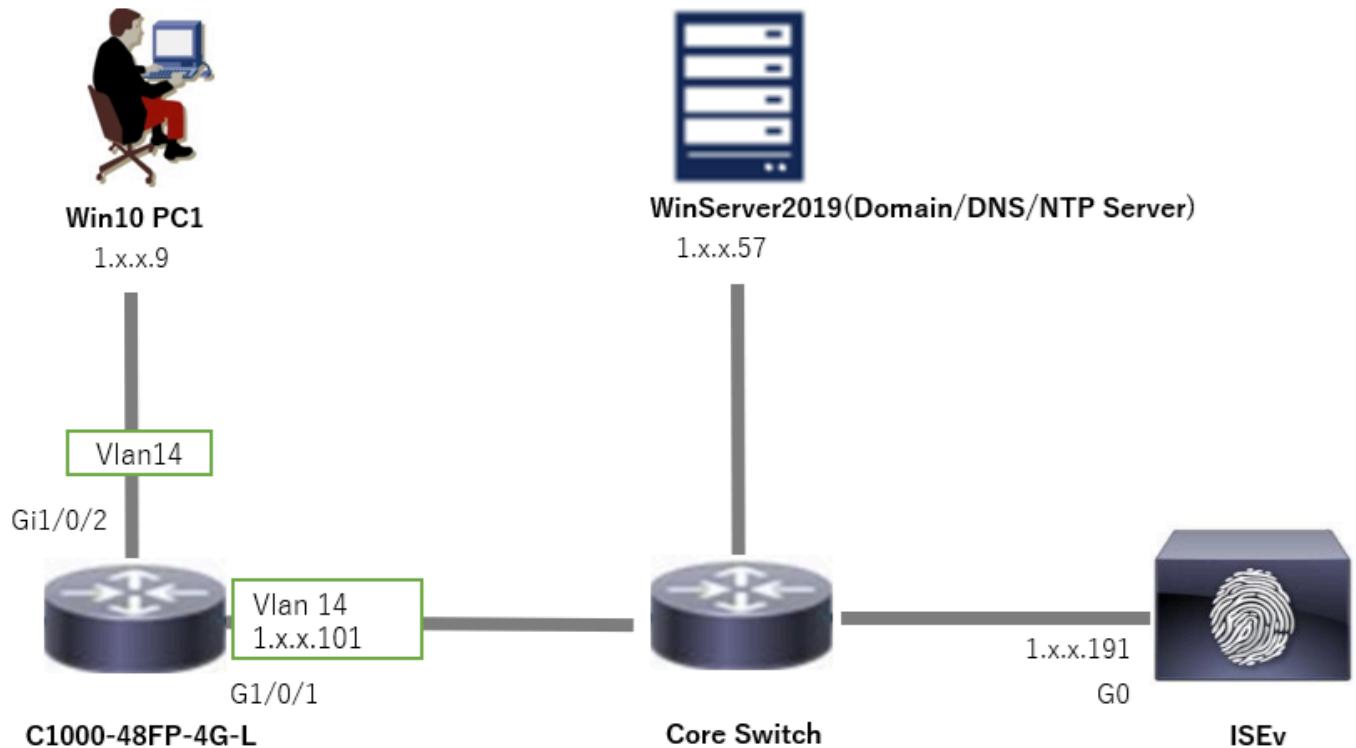
- ل 1 حيحصتلارا Identity Services Engine Virtual 3.3
- C1000-48FP-4G-L 15.2(7)E9
- ليغشتلا ماظن Windows Server 2019

ئصالخ ئيلمعم ئييب يف ئدوجوملا ئزهجألا نم دنتسملاءه يف ئدراولا تامولعملا عاشنامت تناك اذا. (يضارتفا) حوسمم نيكوتتب دنتسملاءه يف ئمدختسملاءه ئزهجألا عيجمج تأدبل رمأ يألا لمحتملا ريثأتلل كمهف نم دكأتف، ليغشتلا ديق كتكبس.

ئكبشلل ئطيطختلا مسرلا

دنتسملاءه لاثمل ھمادختسا متي يذلا ططخملاءه روصلا ھذه ضرعت.

متى يذلا او Windows Server 2019 وھ ad.rem-xxx.com، دنتسملاءه يف لاثمك ھمادختسا.



ةكبس لىل يطيطخ تلا مسرا

ةيساساً تامولع

وأ ئكبش لىل لوصلل يعسي يذلا زاهجلا ئيوه نم ققحتت نيمأت ئيلمع يه زاهجلا ئقاداصم تانايىب لىل عانب صخشلا ئيوه نم ققحتت يلتلا، مدخلتسملار ئقاداصم سكع لىل. ماظن زاهجلا ئحص نم ققحتلا لىل زاهجلا ئقاداصم زكرت، رورملا ئملىك و مدخلتسملامسا لاثم دامتعمالا يتلانا ناماً حيىتافم وأ ئيمقرلا تاداهشلا مادختساب كلذب مايقولا متى ام ابلاغو. هسفن زاهجلل ئديرف نوكت.

ئيناكما نامض ئسس فملل نكمي، اعم مدخلتسملار ئقاداصم و ئيلالا ئقاداصملامادختسابو ريفوت يلاتلابو، طقف نيدمتعملان يمدختسلالا ئزهجانلا لالخ نم اهتكبش لىل لوصلل ئيامحل صاخ لكشب ئديفم هذه لم الواقعلا ئيئانث ئقاداصملار ئقيرط دعتو. اناماً ريثكأ ئييبراصىلا ئيمىظنلارا رىياعملل لاثتمالا او ئساسحلا تامولعملارا.

تانيوكتلارا

ياف نيكوتلارا

ياف نيكوتلارا دحلا واه دلائل C1000 CLI.

```
aaa new-model
```

```
radius server ISE33
address ipv4 1.x.x.191
key cisco123
```

```

aaa group server radius AAASERVER
server name ISE33

aaa authentication dot1x default group AAASERVER
aaa authorization network default group AAASERVER
aaa accounting dot1x default start-stop group AAASERVER
dot1x system-auth-control

interface Vlan14
ip address 1.x.x.101 255.0.0.0

interface GigabitEthernet1/0/1
switchport access vlan 14
switchport mode access

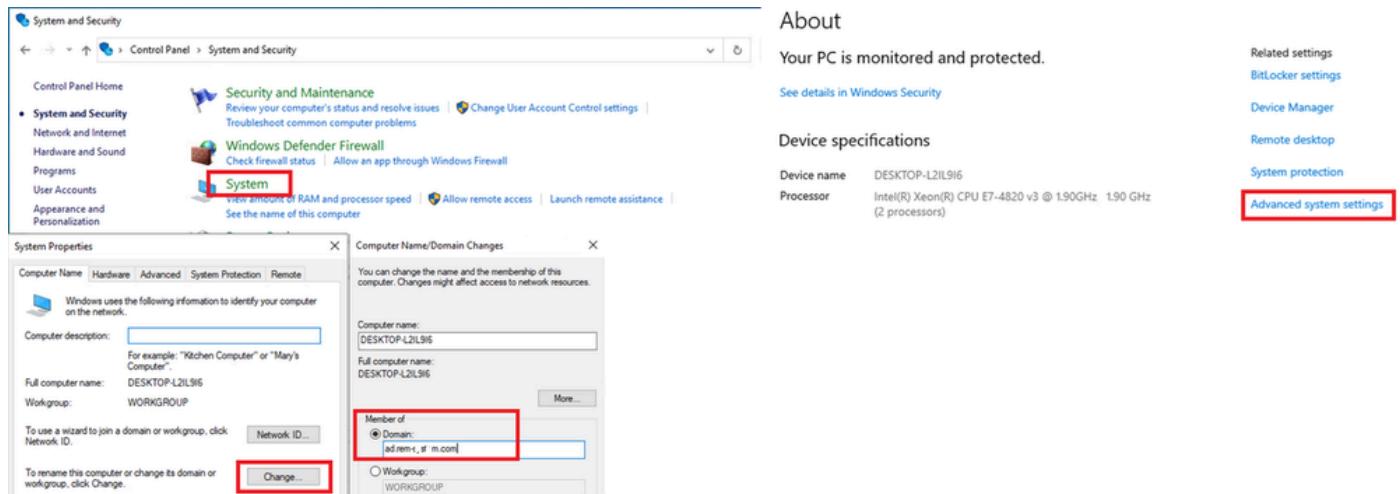
interface GigabitEthernet1/0/2
switchport access vlan 14
switchport mode access
authentication host-mode multi-auth
authentication port-control auto
dot1x pae authenticator
spanning-tree portfast edge

```

رتويبمك يف نيوكتل Windows

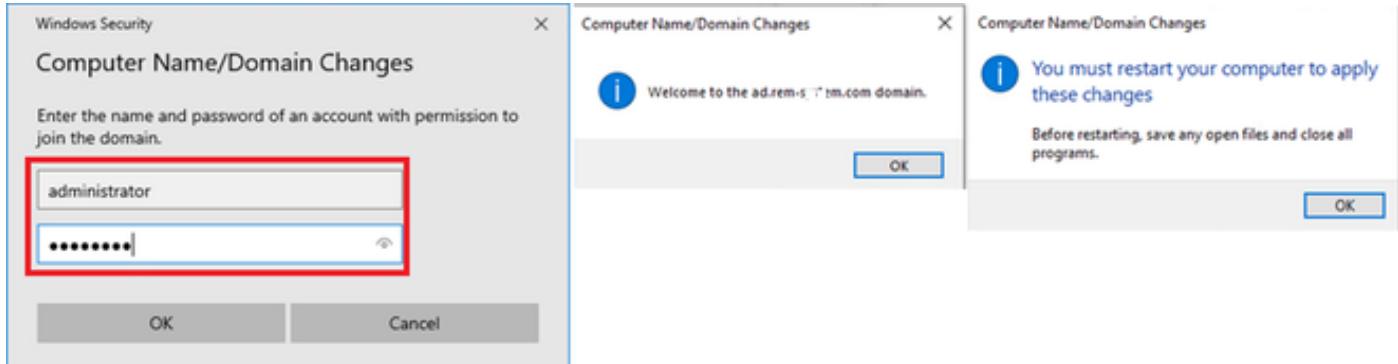
لاجم ىل رتويبمك ةفاضا 1. ۋەطخىلا AD

ماظنلار تادادعى قوف رقنا مىت، ماظنلار قوف رقنا او، نامأ او ماظنلار > مكحول ىل لقتنا لاجملار مسا لخدأو لاجملار ددح مىت، رىيغىت قوف رقنا، "ماظنلار صئاصخ" راتا يف. ۋەدقىتمىلا.



لاجم ىل رتويبمك ةفاضا AD

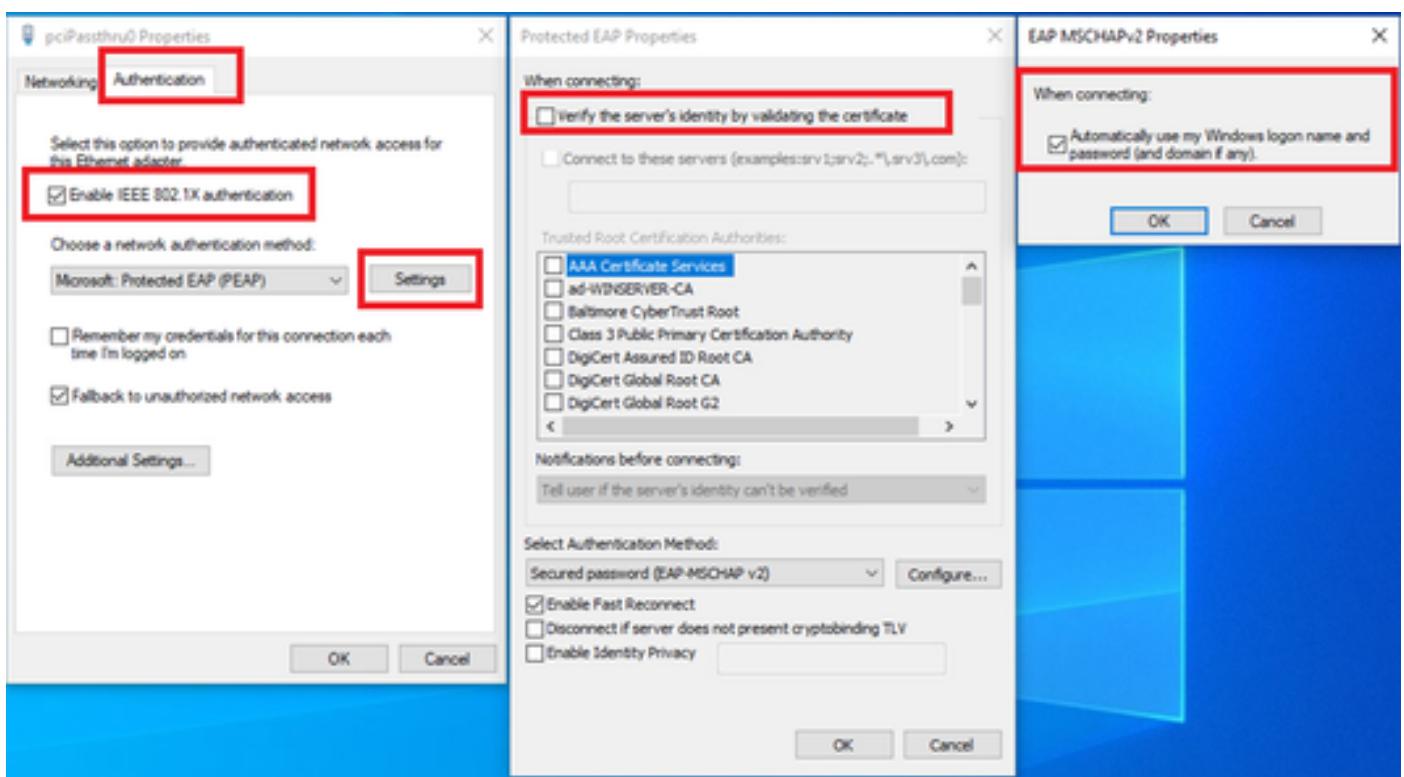
لاجملا مداخ رورم ۋەملەك ولاخدا مىختىسم مسا، نامأ ۋەذفان يف Windows.



رورملا ۋە مەلکو مىختىسىمىلا مىسالاخدا

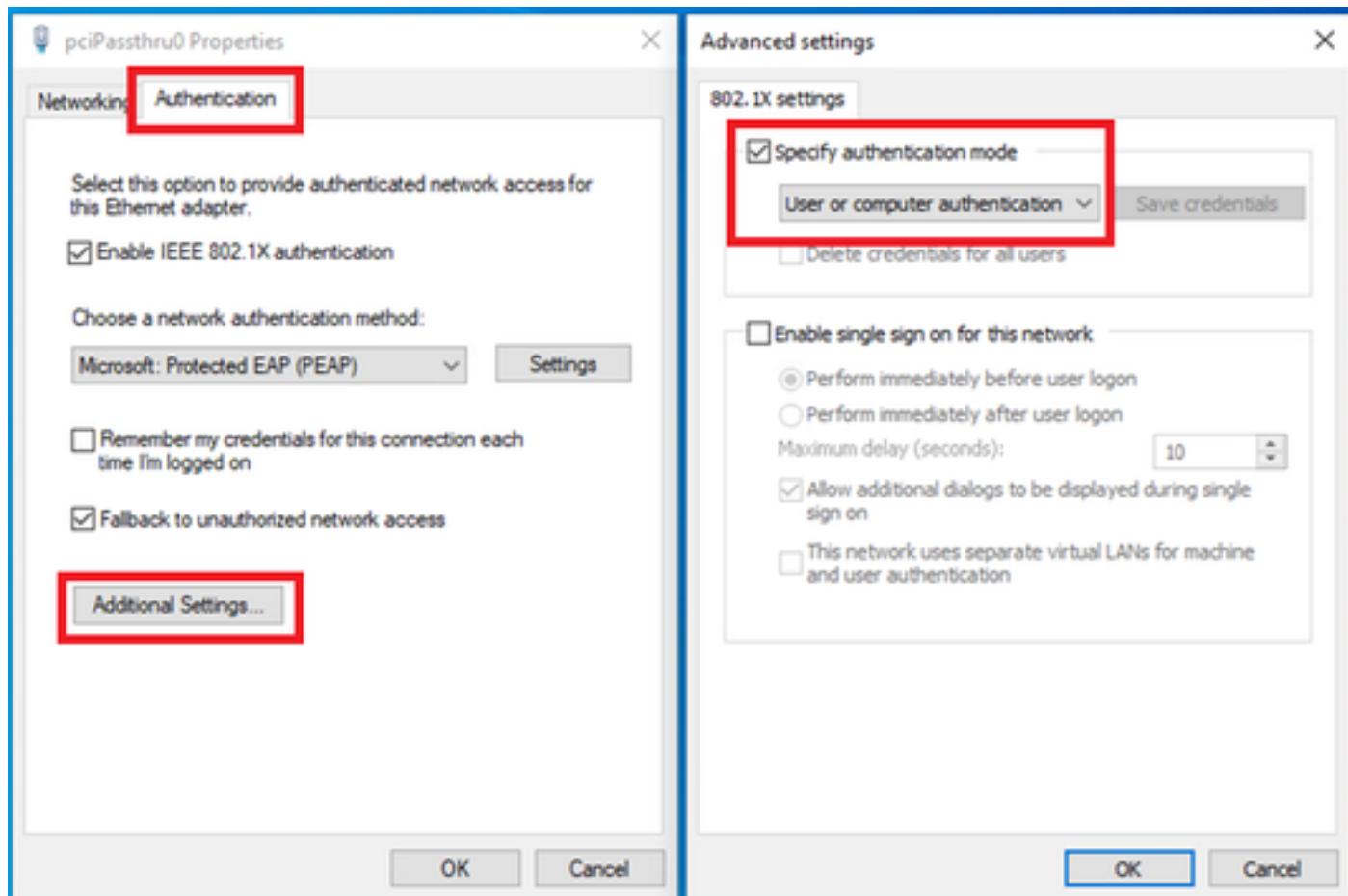
مۇختىسىمىلا ۋە قاداصمۇنى يۈكەت 2. ۋە طەخلا

ۋەذفان يىف تادادىعىلىع رقنا IEEE 802.1X. ۋە قاداصمۇنى يۈكەت نىڭ كەنەت نىم قىقىحەت، ۋە قاداصمۇنى يلى لىقتنى ئەدەشلىق قىچىتىپ مەلکەنلىق ئەي دەت ئەغلىپ مەق، ئې مەحمەل EAP صىئاصلەر رورم ۋە مەلکو مىختىسىنىم قىقىحەت EAP MSCHAPv2، ئې يۈكەت ئىلىع رقنا مەت يىذلە مۇختىسىمىلا مىسالا مادختىسىنىم (دەجۇن لاجىملاو) اىيىاقلىت Windows ئىلى لۇخدىلا لىجىسىت. مۇختىسىمىلا ۋە قاداصمۇنى زاھىج لۇخدىلەنەت ئانىڭ ھەلاخدا.



مۇختىسىمىلا ۋە قاداصمۇنى يۈكەت

رتويىبمكىلا وأ مۇختىسىمىلا ۋە قاداصمۇنى دەج. ئې فااضەلا تادادىعەلا نىم قىقىحەت، ۋە قاداصمۇنى يلى لىقتنى ئەلدىسنىملا ۋە مەمەقلىقلا نىم.



وقد أدى ذلك إلى تغييرات في التكوين.

نظام التشغيل Windows داخل الماينتال

لأجل ذلك، نحتاج إلى إدخال رمز الماينتال.

نحو ذلك، نحتاج إلى إدخال رمز الماينتال.

Name	Type
DESKTOP-L2IL9I6	Computer
ISE33-01	Computer

لأجل ذلك، نحتاج إلى إدخال رمز الماينتال.

لأجل ذلك، نحتاج إلى إدخال رمز الماينتال.

فاضاً نيم دختسه م قوف رقنا ، رتوي بمكلا ۋەھجأو Active Directory يەم دختسەم لى لقتنالا. لاجم م دختسەمك رابتخا م دختسەم.

Name	Type	Description
Administrator	User	Built-in account for administering the computer/domain
Allowed RODC Password Replication Group	Security Group - Domain Local	Members in this group can have their passwords replicated to...
Cert Publishers	Security Group - Domain Local	Members of this group are permitted to publish certificates to...
Cloneable Domain Controllers	Security Group - Global	Members of this group that are domain controllers may be cl...
DefaultAccount	User	A user account managed by the system.
Denied RODC Password Replication Group	Security Group - Domain Local	Members in this group cannot have their passwords replicate...
DnsAdmins	Security Group - Domain Local	DNS Administrators Group
DnsUpdateProxy	Security Group - Global	DNS clients who are permitted to perform dynamic updates p...
Domain Admins	Security Group - Global	
Domain Computers	Security Group - Global	
Domain Controllers	Security Group - Global	
Domain Guests	Security Group - Global	
Domain Users	Security Group - Global	
Enterprise Admins	Security Group - Universal	
Enterprise Key Admins	Security Group - Universal	
Enterprise Read-only Domain Controllers	Security Group - Universal	
Group Policy Creator Owners	Security Group - Global	
Guest	User	
Key Admins	Security Group - Global	
index_user	User	
Protected Users	Security Group - Global	
RAS and IAS Servers	Security Group - Domain L	
Read-only Domain Controllers	Security Group - Global	
Schema Admins	Security Group - Universal	
test user	User	

لاجم م دختسه م فاضاً

لاجملە يەم دختسەم و لاجملە يەلۋەسەم وضعى لى لاجملە م دختسەم فاضاً.

Member Of		Dial-in	Environment	Sessions
Remote control	Address	Remote Desktop Services Profile	COM+	
General	Address	Account	Profile	Telephones
		Dial-in	Environment	Sessions

Member Of:	
Name	Active Directory Domain Services Folder
Domain Admins	adrem-03.sbm.com/Users
Domain Users	adrem-03.sbm.com/Users

لاجملە فەم دختسەم و لاجملە يەلۋەسەم

ISE نويوكنلا يف

زاوچ ۋەفاصلار 1. ۋەطخىلدا

C1000 دىلىنىڭ رقنىڭ قۇرغۇچىسىنىڭ IP آدرسىنىڭ تېكزىگىنىڭ ئېرىدى.

The screenshot shows the ISE interface under the 'Administration / Network Resources' tab. On the left sidebar, 'Administration' is selected. In the main content area, 'Network Devices' is selected. A device named 'C1000' is listed. The configuration details for 'C1000' are shown, including:

- Name: C1000
- Description: (empty)
- IP Address: 1.1.1.101 / 32
- Device Profile: Cisco
- Model Name: (empty)
- Software Version: (empty)
- Network Device Group:
 - Location: All Locations
 - IPSEC: No
 - Device Type: All Device Types
- RADIUS Authentication Settings: (checkbox checked)
- RADIUS UDP Settings:
 - Protocol: RADIUS
 - Shared Secret: cisco123

زاوچ ۋەفاصلار

2. ۋەطخىلدا Active Directory ۋەفاصلارىنىڭ ئېرىدى.

Active Directory راداصلارنىڭ قۇرغۇچىسىنىڭ IP آدرسىنىڭ تېكزىگىنىڭ ئېرىدى.

- AD_JOIN_POINT: Active Directory چىخىتىنىڭ مىسالى
- ad.rem-xxx.com: Active Directory چىخىتىنىڭ مىسالى

The screenshot shows the ISE interface under the 'Administration / Identity Management' tab. On the left sidebar, 'Administration' is selected. In the main content area, 'External Identity Sources' is selected. Two entries are listed:

- Join Point Name: AD_Join_Point
Connection: Active Directory
- Join Point Name: AD_Join_Point
Connection: Active Directory Domain
Domain: ad.rem-xxx.com

Active Directory ۋەفاصلارى

ةلدسنملا ةمئاقلالا نم ليلدلا نم تاعومجم ديدحت ددح ،تاعومجم بيوبتلابي ةمالماع لىا لقتنان

The screenshot shows the 'External Identity Sources' configuration page. The 'Groups' tab is selected. A red box highlights the 'Add' button under the 'Connection' section and the 'Groups' tab itself. Another red box highlights the 'Select Groups From Directory' dropdown.

ليلدلا نم تاعومجم ديدحت

ىلع رتويبمكلا ٽهجاً نم ققحت .ةلدسنملا ةمئاقلالا نم تاعومجملا دادرتسا قوف رقنا قوف رقنا او ad.rem-xxx.com/Users/Domain يمدختسمو ad.rem-xxx.com/Users/Domain ناونعلا قفافم.

The screenshot shows the 'Select Directory Groups' dialog box. It lists groups from the domain 'ad.rem-xx...m.com'. Two groups are selected: 'ad.rem-xx...m.com/Users/Domain Computers' and 'ad.rem-xx...m.com/Users/Domain Users', both highlighted with red boxes. The 'OK' button at the bottom right is also highlighted with a red box.

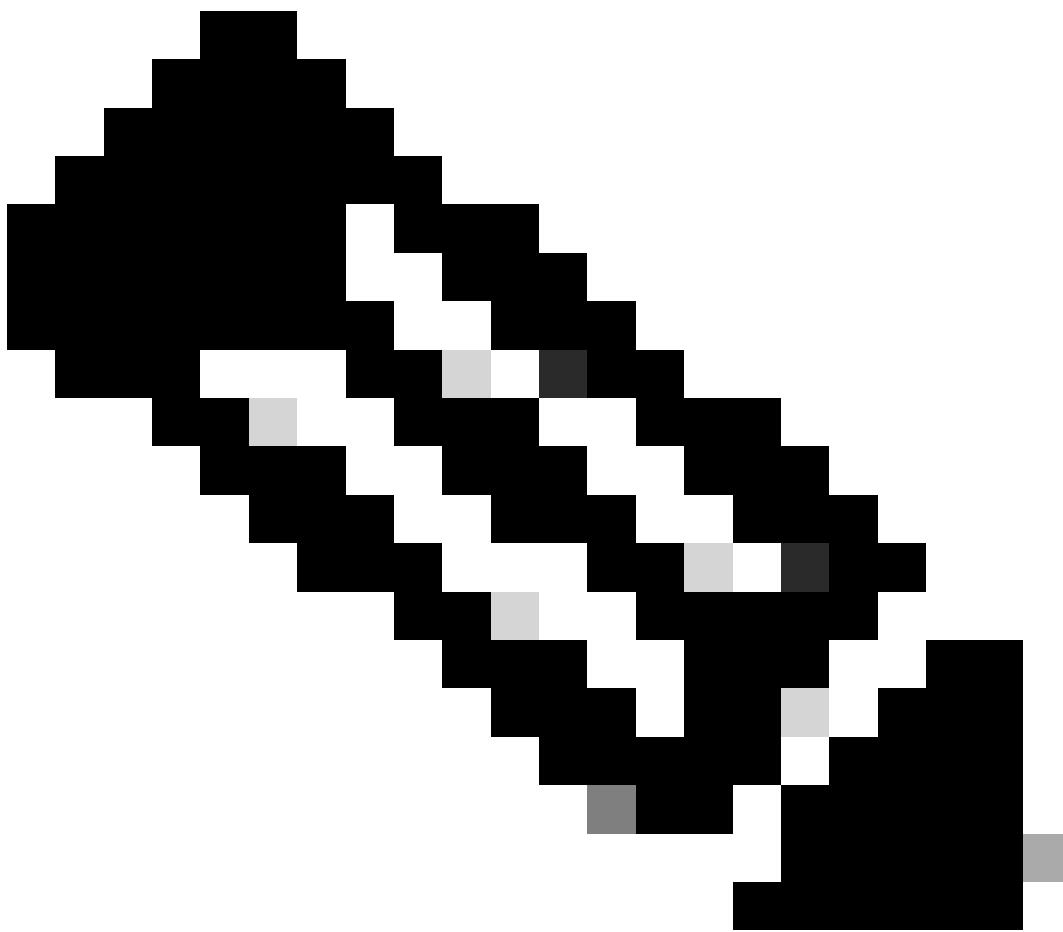
نيمدختسممل او لاجمل رتويبمك ٽهجاً ئفاصن

زاهجلا ئقداضم دادع ديكأت .3. ئوطخل

زاهجلا ئقداضم دادع نم دكأت و ، ئمدقتم تادادع بيو بتلابي ةمالماع لىا لقتنان

زاهجلا ئقداضم نيكمتل : زاهجلا ئقداضم نيكمت

ليوختلاب لباق ئلآل او مديختسملا ئقداضم جمدل : "زاهجلا لىا لوصولا ديق" نيكمت



ىلإ 1 نم وه مدققتا تقول حيحصلنا قاطنلا: ظحال

Identity Services Engine Administration / Identity Management Evaluation Mode

Bookmarks Identities Groups **External Identity Sources** Identity Source Sequences Settings

Dashboard Context Visibility Operations Policy **Administration** Work Centers

Interactive Help

External Identity Sources

- < >
- Certificate Authentication
- Active Directory
 - AD_Join_Point
 - LDAP
 - ODBC
 - RADIUS Token
 - RSA SecurID
 - SAML Id Providers
 - Social Login

Connection Allowed Domains PassivID Groups Attributes **Advanced Settings**

Advanced Authentication Settings

Enable Password Change

Enable Machine Authentication

Enable Machine Access Restrictions

Aging Time 5 hours

Machine Access Restrictions Cache will be replicated between PSN instances in each node group.
To configure MAR Cache distribution groups: [Administration > System > Deployment](#)

Enable dial-in check

Enable callback check for dial-in clients

Use Kerberos for Plain Text Authentications

Demand Active Directory User Lookout

زاهجلا ٽقاداصم دادعإ

ٽي وهل ردصم تالسلست ٽفاضإ 4. ٽوطخلإ

ٽي وهل ردصم لسلست ٽفاضإب مقو، ٽي وهل ردصم تالسلست > ٽرادإ ىلإ لقتنا.

- مسالا: Identity_AD
- ٽقاداصملانع ثحبلا ٽمئاق: AD_JOIN_POINT

The screenshot shows the 'Identity Source Sequences' page in the Cisco Identity Services Engine. The 'Identity Source Sequence' section is expanded, showing a table with one row. The row has two columns: 'Name' (containing 'Identity_AD') and 'Description' (empty). Below this is a section titled 'Certificate Based Authentication' with a dropdown menu. At the bottom is a section titled 'Authentication Search List' with two columns: 'Available' (listing 'Internal Endpoints', 'Internal Users', 'Guest Users', and 'All_AD_Join_Points') and 'Selected' (listing 'AD_Join_Point'). Red boxes highlight the 'Identity Source Sequences' tab, the 'Name' field, and the 'AD_Join_Point' entry in the 'Selected' column.

ٽي وهل ردصم تالسلست ٽفاضإ

ليوختلا فيرعت فلم و DACL ٽفاضإ 5. ٽوطخلإ

ٽلباقلا (ACL) لوصولا يف مكحتما مئاوق > ضيوفتلا > جياتنلا > ٽس ايسلا ىلإ لقتنا
ٽلباقلا (DACL) لوصولا يف مكحتما مئاوق ٽفاضإب مقو، ليزنلل.

- مسالا: MAR_PASS
- يأب IP ل حامسلأا (DACL): ٽيس اسألا ٽينبلا ىلإ لوصولا يف مكحتما مئاوق ٽوتجم
فيضم يأب IP ل حامسلأاو 1.x.x.101 فيضم

Identity Services Engine

Policy / Policy Elements

Results

Authorization Profiles > Downloadable ACLs

Name: MAR_Passed

Description:

IP version: IPv4

DACL Content:

- 1234567 permit ip any host 1.1.1.1 1.3.101
- 8910111 permit ip any host 1.1.1.1 1.1.1.151
- 2131415
- 1A171E1

فیرعت فلم فض او، لیوختلا تافیصوت > جئاتنلا > لیوختلا > جئاتنلا > مسالا

فیرعت فلم فض او، لیوختلا تافیصوت > جئاتنلا > لیوختلا > مسالا

- مسالا: MAR_PASS
- مسالا DACL: MAR_PASS

Identity Services Engine

Policy / Policy Elements

Results

Authorization Profiles > MAR_Passed

Name: MAR_Passed

Description:

Access Type: ACCESS_ACCEPT

Network Device Profile: Cisco

Service Template:

Track Movement:

Agentless Posture:

Passive Identity Tracking:

DACL Name: MAR_Passed

لیوختلا فیرعت فلم فاضا

ج5ن ٰعوٰمجم ٰفاضا! 6. ٰوطخل

ج5ن ٰعوٰمجم ٰفاضا! + قوف رقنا، ج5ن تاعوٰمجم > ج5ن ىلإ لقتننا.

- ج5ن ٰعوٰمجم ٰفاضا: MAR_TEST
- طورشلا: WIRED_802.1X
- ٰكبشلا ىلإ يضارتفا لوصولا: مداخلا لسلست / اهب حومسملا تالوكوتوربلا

جىن ۋە مۇمكىن ئېفاضا!

ۋە مۇمكىن ئېفاضا 7. ۋە خەللا

ۋە مۇمكىن ئېفاضا ىلار قۇف رقنا، جىنلار تابعومىجىلى لىقتنى.

- دەعاقىل مىسالى: MAR_DOT1x
- طورشلى: WIRED_802.1X
- مادختىسى: Identity_AD

ۋە مۇمكىن ئېفاضا!

لىخىتلار جىن ۋە فاضا 8. ۋە خەللا

لىخىتلار جىن ۋە فاضا ىلار قۇف رقنا، جىنلار تابعومىجىلى لىقتنى.

- دەعاقىل مىسالى: MAR_PASS
- AD_JOIN_POINT·ExternalGroups ad.rem-xxx.com/Users/Domain Computers و Network_ACCESS_AUTHENTICATION_PASS يواستى: MAR_PASS
- جىئاتنى: MAR_PASS
- دەعاقىل مىسالى: user_mar_pass
- Network Access·WasMachineAuthenticated True يواسى: PermitAccess و AD_JOIN_Point·ExternalGroups ad.rem-xxx.com/Users/Domain Users يىمدىختسىم يواسى: PermitAccess
- جىئاتنى: PermitAccess

لىخىتلار جىن ۋە فاضا!

ةحصـلـا نـم قـقـحتـلـا

مدختـسـمـلـا ةـقـدـاصـمـ وـزـاهـجـلـا ةـقـدـاصـمـ . 1. طـمـنـلـا

نـم جـوـرـخـلـا لـيـجـسـتـ . 1. ةـوـطـخـلـا

زـاهـجـلـا ةـقـدـاصـمـ لـيـغـشـتـلـ Win10 PC1 نـم جـوـرـخـلـا لـيـجـسـتـ رـزـقـوـفـ رـقـنـاـ.

 Change account settings



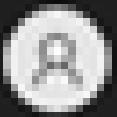
Lock



Sign out



Switch user



FileZilla FTP Client

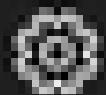


Firefox

G



Get Help



Google Chrome

H



Mail

Interface: GigabitEthernet1/0/2

MAC Address: b496.9115.84cb

IPv6 Address: Unknown

IPv4 Address: 1.x.x.9

User-Name:

host/DESKTOP-L2IL9I6.ad.rem-xxx.com

Status: Authorized

Domain: DATA

Oper host mode: multi-auth

Oper control dir: both

Session timeout: N/A

Restart timeout: N/A

Periodic Acct timeout: N/A

Session Uptime: 5s

Common Session ID: 01C2006500000049AA780D80

Acct Session ID: 0x0000003C

Handle: 0x66000016

Current Policy: POLICY_Gi1/0/2

Local Policies:

Service Template: DEFAULT_LINKSEC_POLICY_SHOULD_SECURE (priority 150)

Server Policies:

ACS ACL: xACSAACLx-IP-MAR_Passed-6639ba20

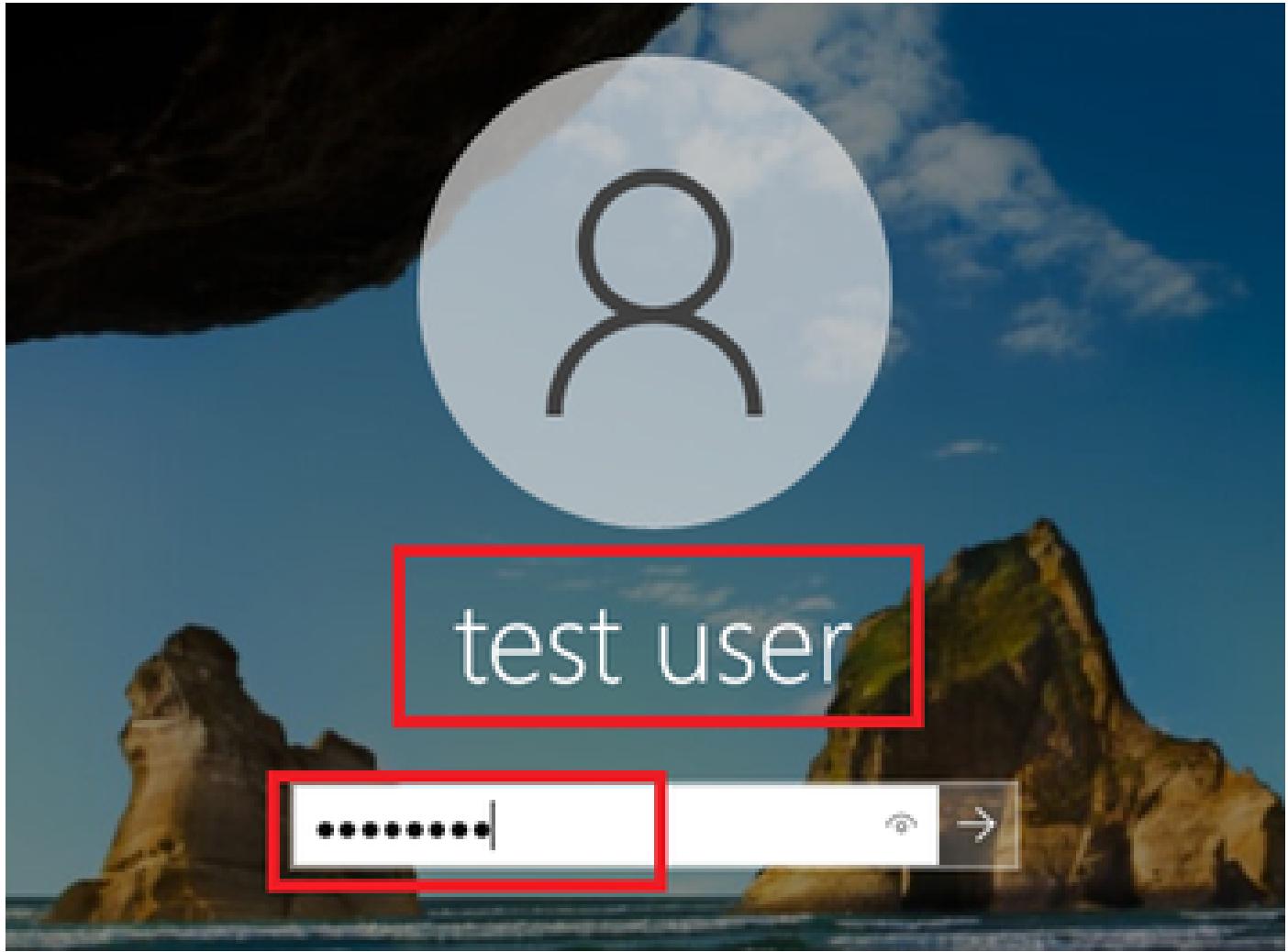
Method status list:

Method State

dot1x Authc Success

لوكس لينجست 3. ووطخلا Windows PC

مدختس ملأ ئقاداصم لينجشتل رورم ئەملکو لاخدا مدختس مس او Win10 PC1 لوكس لينجستب مق.



لوجن دلیج سمت Windows PC

4. ۋەطخىلا ئەق داصلما لەمۇن ئەسلىج دىكأتسا.

C1000-يىف مەختىسىملا ئەق داصلما ئەسلىج دىكأتل رەمألا show authentication sessions interface GigabitEthernet1/0/2 details.

```
<#root>
```

```
Switch#
```

```
show authentication sessions interface GigabitEthernet1/0/2 details
```

Interface: GigabitEthernet1/0/2

MAC Address: b496.9115.84cb

IPv6 Address: Unknown

IPv4 Address: 1.x.x.9

User-Name:

```
AD\testuser
```

Status: Authorized

Domain: DATA

Oper host mode: multi-auth

Oper control dir: both

Session timeout: N/A

Restart timeout: N/A
 Periodic Acct timeout: N/A
 Session Uptime: 85s
 Common Session ID: 01C2006500000049AA780D80
 Acct Session ID: 0x0000003D
 Handle: 0x66000016
 Current Policy: POLICY_Gi1/0/2

Local Policies:

Service Template: DEFAULT_LINKSEC_POLICY_SHOULD_SECURE (priority 150)

Server Policies:

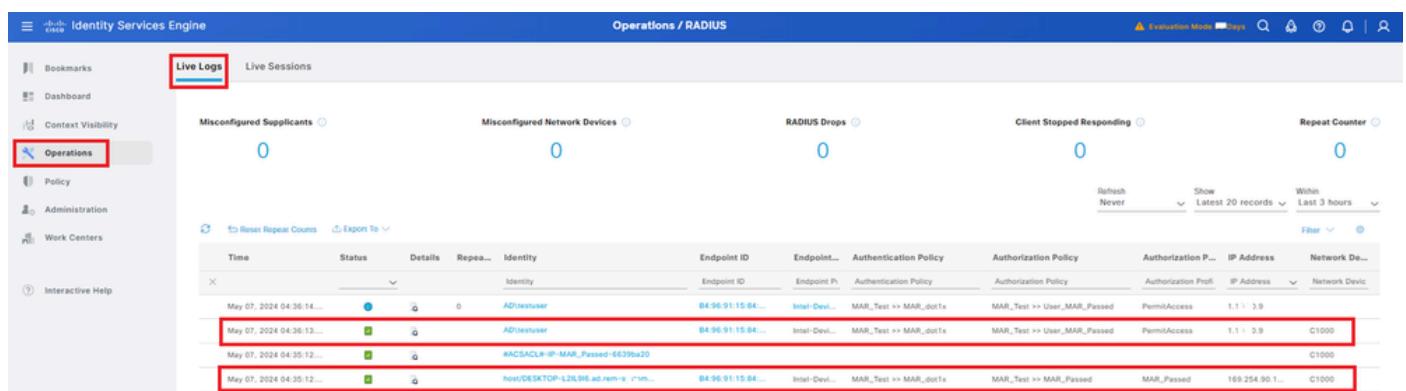
Method status list:

Method State

dot1x Authc Success

لوجس ديكأت 5. ووطخلا

وقداصم ليعشتلا لوجس نم دكأتو، ئيموسرلا مدخلتسملأا ۋەھجاو يف قوشابملا تالجسلى > **RADIUS** < تايىلمۇلا يلى لقتنامىدختسمىلأا ۋەھجەلە.



Time	Status	Details	Repe...	Identity	Endpoint ID	Endpoint...	Authenticatio...	Authorization Po...	Authorization Po...	IP Address	Network Dev...
May 07, 2024 04:36:14...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Passed	PermitAccess	1.1.1.3.9	
May 07, 2024 04:36:13...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Passed	PermitAccess	1.1.1.3.9	C1000
May 07, 2024 04:35:12...	Success	0	0	#ACSACL#-IP-MAR_Passed-6639ba20							
May 07, 2024 04:35:12...	Success	0	0	hess/DESKTOP-L2L9H.ad.mn... 27m...	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> MAR_Passed	MAR_Passed	169.254.90.1...	C1000

لوجس Radius Live

زاجلا وقاصلە يلىيصفتلا ليعشتلا لوجس ديكأت.

Overview	
Event	5200 Authentication succeeded
Username	host/DESKTOP-L2IL9I6.ad.rem-sy.com
Endpoint Id	B4:96:91:15:84:CB
Endpoint Profile	Intel-Device
Authentication Policy	MAR_Test >> MAR_dot1x
Authorization Policy	MAR_Test >> MAR_Passed
Authorization Result	MAR_Passed

Authentication Details	
Source Timestamp	2024-05-07 16:35:12.222
Received Timestamp	2024-05-07 16:35:12.222
Policy Server	ise33-01
Event	5200 Authentication succeeded
Username	host/DESKTOP-L2IL9I6.ad.rem-sy.com
Endpoint Id	B4:96:91:15:84:CB
Calling Station Id	B4-96-91-15-84-CB
Endpoint Profile	Intel-Device
IPv4 Address	169.254.90.172
Authentication Identity Store	AD_Join_Point
Identity Group	Profiled
Audit Session Id	01C2006500000049AA780D80
Authentication Method	dot1x
Authentication Protocol	PEAP (EAP-MSCHAPv2)

Steps		
Step ID	Description	Latency (ms)
11001	Received RADIUS Access-Request - AD_Join_Point	
11017	RADIUS created a new session - ad.rem-sy.com	0
15049	Evaluating Policy Group - AD_Join_Point	1
15008	Evaluating Service Selection Policy	0
15048	Queried PIP - Normalised Radius.RadiusFlowType	3
11507	Extracted EAP-Response/Identity	2
12500	Prepared EAP-Request proposing EAP-TLS with challenge	0
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	1
11001	Received RADIUS Access-Request	6
11018	RADIUS is re-using an existing session	0
12301	Extracted EAP-Response/NAK requesting to use PEAP instead	0
12300	Prepared EAP-Request proposing PEAP with challenge	0
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	5
11018	RADIUS is re-using an existing session	0
12302	Extracted EAP-Response containing PEAP challenge-response and accepting PEAP as negotiated	1
61025	Open secure connection with TLS peer	1
12318	Successfully negotiated PEAP version 0	0
12800	Extracted first TLS record; TLS handshake started	0
12805	Extracted TLS ClientHello message	0
12806	Prepared TLS ServerHello message	0
12807	Prepared TLS Certificate message	0
12808	Prepared TLS ServerKeyExchange message	25
12810	Prepared TLS ServerDone message	0
12305	Prepared EAP-Request with another PEAP challenge	0
11006	Returned RADIUS Access-Challenge	1
11001	Received RADIUS Access-Request	14
11018	RADIUS is re-using an existing session	0

زاهجلا ۋىچىمىلىم لىنىڭلۇقى.

مەختىسىملا ۋىچىمىلىم لىنىڭلۇقى راشابىملا لىرىسىملا دېيكەتلىپ مۇق.

Overview	
Event	5200 Authentication succeeded
Username	AD\testuser
Endpoint Id	B4:96:91:15:84:CB ⊕
Endpoint Profile	Intel-Device
Authentication Policy	MAR_Test >> MAR_dot1x
Authorization Policy	MAR_Test >> User_MAR_Passed
Authorization Result	PermitAccess

Authentication Details	
Source Timestamp	2024-05-07 16:36:13.748
Received Timestamp	2024-05-07 16:36:13.748
Policy Server	ise33-01
Event	5200 Authentication succeeded
Username	AD\testuser
Endpoint Id	B4:96:91:15:84:CB
Calling Station Id	B4-96-91-15-84-CB
Endpoint Profile	Intel-Device
IPv4 Address	1.***.0.9
Authentication Identity Store	AD_Join_Point
Identity Group	Profiled
Audit Session Id	01C2006500000049AA780D80
Authentication Method	dot1x
Authentication Protocol	PEAP (EAP-MSCHAPv2)

Steps		
Step ID	Description	Latency (ms)
11001	Received RADIUS Access-Request - AD_Join_Point	
11017	RADIUS created a new session - ad.rem-sy .am.com	0
15049	Evaluating Policy Group - AD_Join_Point	0
15008	Evaluating Service Selection Policy	1
11507	Extracted EAP-Response/Identity	7
12500	Prepared EAP-Request proposing EAP-TLS with challenge	0
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	8
11018	RADIUS is re-using an existing session	0
12301	Extracted EAP-Response/NAK requesting to use PEAP instead	0
12300	Prepared EAP-Request proposing PEAP with challenge	1
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	11
11018	RADIUS is re-using an existing session	0
12302	Extracted EAP-Response containing PEAP challenge-response and accepting PEAP as negotiated	0
61025	Open secure connection with TLS peer	0
12318	Successfully negotiated PEAP version 0	1
12800	Extracted first TLS record: TLS handshake started	0
12805	Extracted TLS ClientHello message	0
12806	Prepared TLS ServerHello message	0
12807	Prepared TLS Certificate message	0
12808	Prepared TLS ServerKeyExchange message	28
12810	Prepared TLS ServerDone message	0
12305	Prepared EAP-Request with another PEAP challenge	1
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	30
11018	RADIUS is re-using an existing session	0
12304	Extracted EAP-Response containing PEAP challenge-	0

مدختسملاء قداصم ليصافت

طقف مدختسملاء قداصم 2. طمنلا

نميكمتوليطبعت 1. ووطخلان IC NIC Windows PC

ب ظاصاخلا (NIC) ةكبشلا ةهجاو ةقاطب نيمكتوليطبعتب مق، مدختسملاء قداصم ليغشتل Win10 PC1.

ةقداصملاء سلجم ديكأتو 2. ووطخلان

C1000. يف مدختسملاء قداصم سلجم ديكأتل رمألا show authentication sessions interface GigabitEthernet1/0/2 details

<#root>

Switch#

```
show authentication sessions interface GigabitEthernet1/0/2 details
```

Interface: GigabitEthernet1/0/2

MAC Address: b496.9115.84cb

IPv6 Address: Unknown

IPv4 Address: 1.x.x.9

User-Name: AD\testuser

Status: Authorized
Domain: DATA
Oper host mode: multi-auth
Oper control dir: both
Session timeout: N/A
Restart timeout: N/A
Periodic Acct timeout: N/A
Session Uptime: 419s
Common Session ID: 01C2006500000049AA780D80
Acct Session ID: 0x0000003D
Handle: 0x66000016
Current Policy: POLICY_Gi1/0/2

Local Policies:

Service Template: DEFAULT_LINKSEC_POLICY_SHOULD_SECURE (priority 150)

Server Policies:

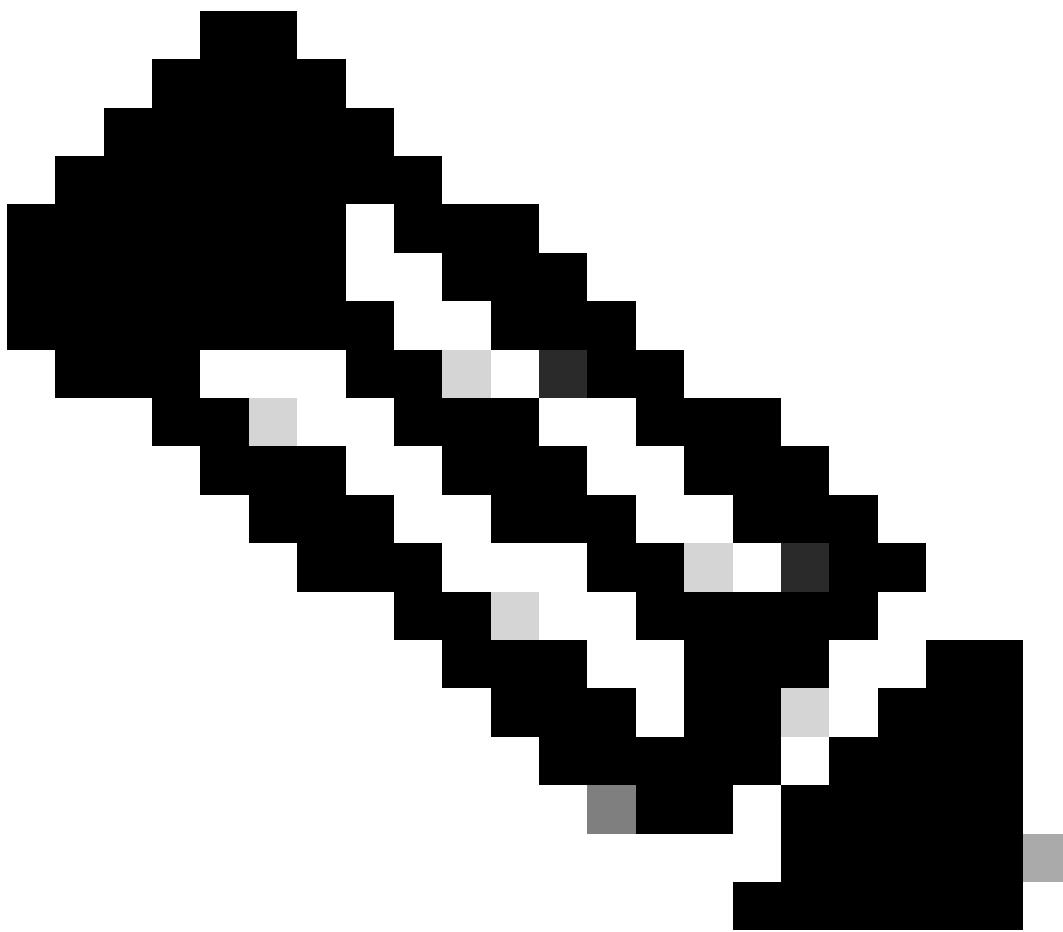
Method status list:

Method State

dot1x Authc Success

لوجس ديكأت 3. ۋوطخلما Radius Live

طشنلما لجسلا ديكأتب مقو، (ISE) ئيموسرلما مدخلتسىملا ۋە جاۋىف قوشابىملا تالجسلا > **RADIUS** < تايلىمعلما ىلى لقتنامى داختسىملا ۋە قداصىل.



مدى مراقبة MAR في ISE لـ RADIUS، بما في ذلك تفاصيل طلب التأمين.

Screenshot of the Cisco Identity Services Engine (ISE) Operations / RADIUS interface:

The left sidebar shows navigation links: Bookmarks, Dashboard, Context Visibility, Operations (highlighted with a red box), Policy, Administration, Work Centers, and Interactive Help.

The main header is "Operations / RADIUS".

Key metrics displayed:

- Live Logs (highlighted with a red box)
- Live Sessions
- Misconfigured Suplicants: 0
- Misconfigured Network Devices: 0
- RADIUS Drops: 0
- Client Stopped Responding: 0
- Repeat Counter: 0

Filter options include Refresh (Never), Show (Latest 20 records), Within (Last 3 hours), and a Filter dropdown.

The "Live Logs" section displays a table of audit logs:

Time	Status	Details	Repe...	Identity	Endpoint ID	Endpoint...	Authentication Policy	Authorization Policy	Authorization P...	IP Address	Network Devic...
May 07, 2024 04:42:05...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Pass...	PermitAccess	1.1.1.1	C1000
May 07, 2024 04:42:04...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Pass...	PermitAccess	1.1.1.1	C1000
May 07, 2024 04:36:13...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Pass...	PermitAccess	1.1.1.1	C1000
May 07, 2024 04:35:12...	Success	0	0	AD\testuser	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> User_MAR_Pass...	PermitAccess	1.1.1.1	C1000
May 07, 2024 04:35:12...	Success	0	0	host/DESKTOP-L2L96.ad.rem-r...	84.96.91.15.84...	Intel-Devi...	MAR_Test >> MAR_dot1x	MAR_Test >> MAR_Pass...	MAR_Pass...	169.254.90.1...	C1000

مدى تسلسل اتصال لـ RADIUS.

Cisco ISE

Overview

Event	5200 Authentication succeeded
Username	AD\testuser
Endpoint Id	B4:96:91:15:84:CB
Endpoint Profile	Intel-Device
Authentication Policy	MAR_Test >> MAR_dot1x
Authorization Policy	MAR_Test >> User_MAR_Pass
Authorization Result	PermitAccess

Authentication Details

Source Timestamp	2024-05-07 16:42:04.467
Received Timestamp	2024-05-07 16:42:04.467
Policy Server	ise33-01
Event	5200 Authentication succeeded
Username	AD\testuser
Endpoint Id	B4:96:91:15:84:CB
Calling Station Id	B4:96:91:15:84:CB
Endpoint Profile	Intel-Device
IPv4 Address	1.1.1.9
Authentication Identity Store	AD_Join_Point
Identity Group	Profiled
Audit Session Id	01C2006500000049AA780D80
Authentication Method	dot1x
Authentication Protocol	PEAP (EAP-MSCHAPv2)
Service Type	Framed
Network Device	C1000
CiscoAVPair	service-type=Framed, audit-session-id=01C2006500000049AA780D80, method=dot1x, AuthenticationIdentityStore=AD_Join_Point, FQSubjectName=ze19620-0842-11ef-a5ec- 362cecc4b4f3df1testuser@ad.rem-sy_te.com, UniqueSubjectID=9273f674e52338d8f14807c495e1ff4c2ef92 17f9
AD-Groups-Names	ad.rem-sy_te.com/Builtin/Users
AD-Groups-Names	ad.rem-sy_te.com/Builtin/Administrators
AD-Groups-Names	ad.rem-sy_te.com/Users/Denied RODC Password Replication Group
AD-Groups-Names	ad.rem-sy_te.com/Users/Domain Admins
AD-Groups-Names	ad.rem-sy_te.com/Users/Domain Users

Steps

Step ID	Description	Latency (ms)
11001	Received RADIUS Access-Request - AD_Join_Point	0
11017	RADIUS created a new session - ad.rem-sy_te.com	0
15049	Evaluating Policy Group - AD_Join_Point	1
15008	Evaluating Service Selection Policy	0
11507	Extracted EAP-Response/Identity	16
12500	Prepared EAP-Request proposing EAP-TLS with challenge	2
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	5
11018	RADIUS is re-using an existing session	0
12301	Extracted EAP-Response/NAK requesting to use PEAP instead	0
12300	Prepared EAP-Request proposing PEAP with challenge	0
12625	Valid EAP-Key-Name attribute received	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	25
11018	RADIUS is re-using an existing session	0
12302	Extracted EAP-Response containing PEAP challenge-response and accepting PEAP as negotiated	1
61025	Open secure connection with TLS peer	0
12318	Successfully negotiated PEAP version 0	0
12800	Extracted first TLS record; TLS handshake started	0
12805	Extracted TLS ClientHello message	0
12806	Prepared TLS ServerHello message	0
12807	Prepared TLS Certificate message	0
12808	Prepared TLS ServerKeyExchange message	26
12810	Prepared TLS ServerDone message	0
12305	Prepared EAP-Request with another PEAP challenge	0
11006	Returned RADIUS Access-Challenge	0
11001	Received RADIUS Access-Request	14
11018	RADIUS is re-using an existing session	0
12304	Extracted EAP-Response containing PEAP challenge-response	1
12305	Prepared EAP-Request with another PEAP challenge	0
24422	ISE has confirmed previous successful machine authentication for user in Active Directory	0
15036	Evaluating Authorization Policy	0
24209	Looking up Endpoint in Internal Endpoints IDStore - AD\testuser	1
24211	Found Endpoint in Internal Endpoints IDStore	3
24432	Looking up user in Active Directory - AD\testuser	
24355	LDAP fetch succeeded	
24416	User's Groups retrieval from Active Directory succeeded	
15048	Queried PIP - AD_Join_Point.ExternalGroups	11
15016	Selected Authorization Profile - PermitAccess	5
22081	Max sessions policy passed	0
22080	New accounting session created in Session cache	0
12306	PEAP authentication succeeded	0
61026	Shutdown secure connection with TLS peer	0
11503	Prepared EAP-Success	1
11002	Returned RADIUS Access-Accept	2

مدى تسلسل اتصال لـ RADIUS.

احداثيات او عاطل افاصن اسما

فـ RADIUS.

- runtime-config

- ليغشتلا تقوليجست

- Runtime-AAA

دنتسملا اذه يف مختسنلا ئىداصم زاهجلا ئىداصم 1. ظمنللى عاطخألا حيحصت لجس ىلع لاثم اذه.

<#root>

```
// machine authentication
MAR,2024-05-08 16:54:50,582,DEBUG,0x7fb2fd3db700,cntx=0000034313,sesn=ise33-01/504417979/41,CPMSessionID=01C2006500000049AA780D8
user=host/DESKTOP-L2IL9I6.ad.rem-xxx.com
,CallingStationID=B4-96-91-15-84-CB,FramedIPAddress=1.x.x.9,MARCache::checkInsertConditions:
subject=machine
, calling-station-id=B4-96-91-15-84-CB, HostName=DESKTOP-L2IL9I6$@ad.rem-xxx.com,MARCache.cpp:105

// insert MAR cache
MAR,2024-05-08 16:54:50,582,DEBUG,0x7fb2fd3db700,cntx=0000034313,sesn=ise33-01/504417979/41,CPMSessionID=01C2006500000049AA780D8
user=host/DESKTOP-L2IL9I6.ad.rem-xxx.com
,CallingStationID=B4-96-91-15-84-CB,FramedIPAddress=1.x.x.9,
Inserting new entry to cache
CallingStationId=B4-96-91-15-84-CB, HostName=DESKTOP-L2IL9I6$@ad.rem-xxx.com, IDStore=AD_Join_Point and
MAR,2024-05-08 16:54:50,582,DEBUG,0x7fb2fd3db700,cntx=0000034313,sesn=ise33-01/504417979/41,CPMSessionID=01C2006500000049AA780D8
user=host/DESKTOP-L2IL9I6.ad.rem-xxx.com
,CallingStationID=B4-96-91-15-84-CB,FramedIPAddress=1.x.x.9,MARCache::onInsertRequest: event not local
// user authentication
MAR,2024-05-08 16:55:11,120,DEBUG,0x7fb2fdde0700,cntx=0000034409,sesn=ise33-01/504417979/45,CPMSessionID=01C2006500000049AA780D8
user=AD\testuser
,CallingStationID=B4-96-91-15-84-CB,FramedIPAddress=1.x.x.9,MARCache::onQueryRequest:
machine authentication confirmed locally
,MARCache.cpp:222
MAR,2024-05-08 16:55:11,130,DEBUG,0x7fb2fe5e4700,cntx=0000034409,sesn=ise33-01/504417979/45,CPMSessionID=01C2006500000049AA780D8
user=AD\testuser
,CallingStationID=B4-96-91-15-84-CB,FramedIPAddress=1.x.x.9,MARCache::onMachineQueryResponse:
machine DESKTOP-L2IL9I6$@ad.rem-xxx.com valid in AD
,MARCache.cpp:316
```

ةلص تاذ تامولع

[زاهجلا ئىللا لوصوللا دىييقتب قصالخا لىسلا او تاراجيالا](#)

هـ لـ وـ لـ جـ رـ تـ لـ اـ هـ ذـ هـ

ةـ يـ لـ آـ لـ اـ تـ اـ يـ نـ قـ تـ لـ اـ نـ مـ مـ جـ مـ وـ عـ مـ اـ دـ خـ تـ سـ اـ بـ دـ نـ تـ سـ مـ لـ اـ اـ ذـ هـ تـ مـ جـ رـ تـ
لـ اـ عـ لـ اـ ءـ اـ حـ نـ اـ عـ يـ مـ جـ يـ فـ نـ يـ مـ دـ خـ تـ سـ مـ لـ لـ مـ عـ دـ ئـ وـ تـ حـ مـ يـ دـ قـ تـ لـ ةـ يـ رـ شـ بـ لـ اـ وـ
اـ مـ كـ ةـ قـ يـ قـ دـ نـ وـ كـ تـ نـ لـ ةـ يـ لـ آـ ةـ مـ جـ رـ تـ لـ ضـ فـ اـ نـ اـ ةـ ظـ حـ اـ لـ مـ ئـ جـ رـ يـ .ـ صـ اـ خـ لـ اـ مـ هـ تـ غـ لـ بـ
يـ لـ خـ تـ .ـ فـ رـ تـ حـ مـ مـ جـ رـ تـ مـ اـ هـ دـ قـ يـ يـ تـ لـ اـ ةـ يـ فـ اـ رـ تـ حـ اـ لـ اـ ةـ مـ جـ رـ تـ لـ اـ عـ مـ لـ اـ حـ لـ اـ وـ
ىـ لـ إـ أـ مـ ئـ اـ دـ عـ وـ جـ رـ لـ اـ بـ يـ صـ وـ تـ وـ تـ اـ مـ جـ رـ تـ لـ اـ هـ ذـ هـ ةـ قـ دـ نـ عـ اـ هـ تـ يـ لـ وـ ئـ سـ مـ
(رـ فـ وـ تـ مـ طـ بـ اـ رـ لـ اـ)ـ يـ لـ صـ أـ لـ اـ يـ زـ يـ لـ جـ نـ إـ لـ اـ دـ نـ تـ سـ مـ لـ اـ).